WBLE-SL ▶ UECM346	3-202502-EZZ ▶ Quizzes ▶ 202502UECM	134630E1a ► Review of preview	Update this Quiz				
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		Review of preview					
Started on	Friday, 7 March 2025, 10:30 AM						
	Friday, 7 March 2025, 10:30 AM						
Time taken Grade	0 out of a maximum of 10 (0%)						
0.000							
1 🐷	A random variable has a mean of 6 a	and coefficient of variation of 12. The third raw moment is 1640. Determine the skewness					
Marks: 1							
	Answer:	Y .					
		^					
	Make comment or override grade Incorrect						
	Correct answer: -0.246185						
	Marks for this submission	າ: 0/1.					
2 🗑	Claim severity has the following distriction Size 150.0 157.5 165.0 172.5	ribution:					
Marks: 1	Probability 0.31 0.29 0.27 0.09	0.04					
	Determine the distribution's Skewne	SS					
	Answer:	X					
	Make comment or override grade						
	Incorrect						
	Correct answer: 0.570963	a. 0/1					
	Marks for this submission	1: 0/1.					
3 🗹 Marks: 1	Claim sizes expressed in Ringgit Mai	laysia(RM) follow a pareto distribution with parameters α = 4 and θ = 2,550. A euro is worth 4.5 RM. Calculate the probability that a claim will be worth 970.0 euros or more.					
	A						
	Answer:	X					
	Make comment or override grade						
	Incorrect						
	Correct answer: 0.018492 Marks for this submissior	n· 0/1					
	1 101 K5 101 K113 305111133101	0, 1.					
4 🕏	An insurance loss is being modeled a	as a continuous two-spliced distribution as follows:					
Marks: 1	$f_X(x)$						
	= $c_1 e^{-x/300}$, 0 < x < 300 = $c_2 e^{-x/3600}$, x \ge 300						
	= $c_2 e^{-x/3000}$, $x \ge 300$ Calculate the average loss						
	· · · · · · · · · · · · · · · · · · ·						

Answer:	[x		
Make comment or overr Incorrect Correct answer: 3374.2 Marks for this su	226054	: 0/1.			
5 ☑ Marks: 1	For insurance coverage, you are given that claim size, X, follows a gamma distribution with parameters α = 3, θ = 910. Determine V(XΛ 1,850)				
	Answer:] x	
	Incorrect Correct answ	ent or override grade ver: 143247.29 r this submission	: 0/1.		
6 ☑ Marks: 1	X is a random variable representing loss size. You are given that $E[X \wedge d] = d-2.6z\Phi(zd^{-1/2}) - 2.6y \exp(2/2.6)\Phi(-yd^{-1/2}), z = (d-2.6)/2.6, y = (d+2.6)/2.6.$ Loss sizes are affected by 15% inflation. Determine the average payment per loss under a policy with 13 ordinary deductible after inflation.				
	Answer:			x	
	Incorrect Correct answ	ent or override grade ver: 0.691451 r this submission	: 0/1.		
7					
Marks: 1	• Losses follow a Weibull distribution with parameters θ = 20 and τ = 2. • The insurance coverage has an ordinary deductible of 12.				
	If the insure	r makes a payment, what	t is the probability that an insurer's payment is less than or equal to 34		
	Answer:] x	
	Incorrect Correct answ	ent or override grade ver: 0.992773 r this submission	: 0/1.		
8 👺	Let X be a di	iscrete random variable w	with probability generating function		
Marks: 1	Calculate the	e mean excess loss, e(1,2	$P_{X}(z) = 0.37z^{230} + 0.24z^{690} + 0.22z^{1150} + 0.14z^{1610} + 0.03z^{2070}$ 250)		
	Answer:			x	
	Incorrect Correct answ	ent or override grade ver: 441.18 r this submission	: 0/1.		
9 👺 Marks: 1	Suppose X ~	uppose $X \sim N(\mu = 170, \sigma^2 = 1,156)$, calculate $E[(X - 102)_+]$.			
	Answer:] x	
	Make comme	ent or override grade			

Incorrect

Correct answer: 68.29

Marks for this submission: 0/1.

10 🔽 Marks: 1	A loss, X , follows a Pareto distribution with $\alpha=5$ and unspecified parameter θ . You are given: Calculate E[X - 2,480 X > 2,480].		E[X - 916 X > 916] = 2E[X-103 X > 103].	
	Answer:			_ x
	Make comment or override grade Incorrect Correct answer: 797.5 Marks for this submission	n: 0/1.		

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UECM3463-202502-EZZ